SPECIFICATION AMENDMENTS

On page 5, kindly amend the first full paragraph as follows.

The data input to each scan chain is provided by a weight generator (WG) circuit 112 of the present invention that is portrayed as weight generators **112a - 112n** wherein as portrayed, WG **112a** provides an input to a scan chain **104a**, WG **112b** provides an input to a scan chain [**112b**] 104b, WG **112c** provides an input to a scan chain [**112c**] 104c, and WG **112n** provides an input to a scan chain **104n**. The design of an embodiment of a weight generator **112** is particularly taught presently with reference to Figure 2. Preferably each weight generator **112** is on-die. Each weight generator **112i** (wherein "i" signifies any implemented weight generator) provides a determined pseudo-random weighted input to the scan chain **104i** to which it is coupled, "weight" meaning here the probability of obtaining a one bit value for each bit in the input to the scan chain **104i**.